



TORNADO COMPACT LAB

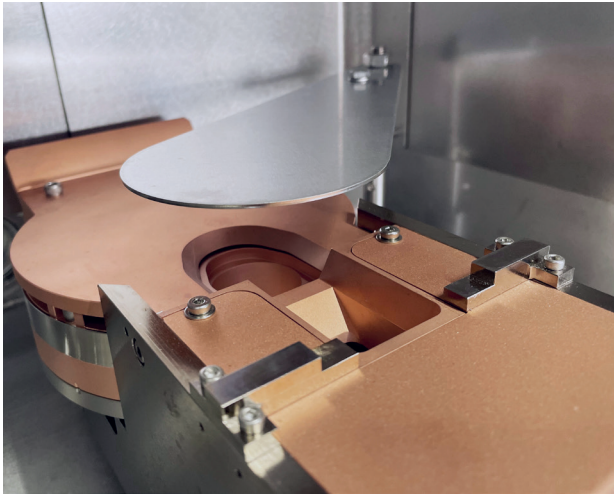
WHEN THIN FILM MATTERS

TORNADO COMPACT LAB EVAPORATION AND SPUTTERING

Tornado Compact LAB is a compact deposition system – a real lab workhorse, and due to the easy access, easy operation, and high process repeatability, it is a preferred tool for both the young student and the experienced scientist. The system is available with evaporation or sputtering sources. It is a versatile entry level deposition system with fully automated process control and data logging with Cryosoft3 HMI.

Available with manual load lock for even faster processing. Application examples involve general thin film R&D, photovoltaic materials, multilayer ohmic contacts, oxide and nitride coatings, graded cermet layers, metal coatings for electrodes, and hydrophobic or hydrophilic ceramic layers.



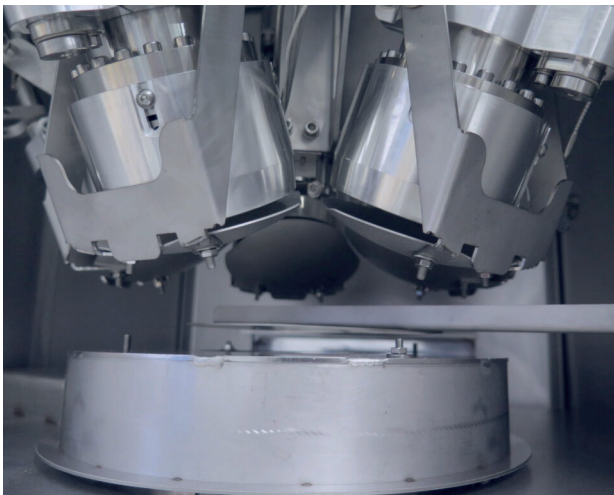


TORNADO SPUTTERING

- Up to five 2-3" magnetrons
- Up to three 4" magnetrons
- Supports DC, pDC, RF, and HiPIMS sputtering
- Single target or multi target co-deposition
- Deposition of metals, nitrides, and oxides
- Reactive sputtering

TORNADO EVAPORATION

- Metallisation
- Lift-off processes
- Optionally combined with thermal evaporator
- E-beam and thermal evaporation



SINGLE SUBSTRATE STAGE

- Continuous 360° or indexed rotation
- Backside resistive heating up to 400°C
- Water cooled substrate stage with tilt (+/-45deg)
- Single substrate load lock
- Typical substrate size up to 4" (100mm)
- RF/DC Bias feeding

BATCH SUBSTRATE FIXTURE

- Max diameter 300mm
- Wafer capacity: 8x3" (76,2mm), 5x4" (100mm)
- RF/DC Bias feeding



WHO ARE WE

Polyteknik AS is a PVD equipment manufacturer with an innovative and best service approach. With more than 25 years in business, a global reference list, and an excellent platform of technology, Polyteknik AS has turned to be an appreciated partner in the thin film industry.

WHAT DO WE DO

The portfolio of platform systems ranges from small scale R&D to high volume or large area deposition systems. Polyteknik AS covers several deposition processes including sputtering, evaporation, and varieties of these. At Polyteknik AS you will meet a dedicated team interested in a strong co-operation towards the best solution.

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